

LOW LIGHT VIEWER WITH IMAGE SIMULATION

ABSTRACT OF THE INVENTION

A display apparatus includes an IR or other light source that produces light at a first wavelength that is modulated according to a desired image. The modulated light is then applied to a phosphor that converts the light to a second wavelength in the visible range. In one embodiment, the image source is a scanned light beam display that scans an IR light beam onto an image intensifier tube of a night vision goggle. In other embodiments, the image source is a LCD having an IR back light or a FED panel that emits electrons directly into a microchannel accelerator plate of the night vision goggles. In still another embodiment, the image source emits visible or ultraviolet light onto a phosphor that emits light of a different wavelength in response.